

1 \_\_\_\_\_ is the study of matter and the change that it undergoes.

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2 A \_\_\_\_\_, also known as a chemical, is matter that has a definite shape and uniform composition.

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- 3 \_\_\_\_\_ is a substance that forms a protective layer in Earth's atmosphere.

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### Bellringer

- What is the scientific method?  
What are the methods?
- What is the difference between a hypothesis, theory, and law?
  - ↙
  - ↘ many experiments that support the idea
  - ↘ rule of nature

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You have a couple tomato plants.

There is a fertilizer that advertises  
that if you use the fertilizer, you  
will get larger + more plentiful

J.V.

1 factor

D.V.

tomatoes

How would you design  
an experiment to test this?

constants

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## Chemistry 1.2-1.3

Grade: 11th

Subject: Chemistry

Date: 9/3

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- 1 Mass is a measurement that reflects the amount of matter.

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- 2 Technology is the practical application of scientific information.

True

False

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3 Which is not a branch of Chemistry?

- A Polymer
- B Biochemistry
- C Industrial
- D Mechanical

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4 A model is a visual, verbal, or mathematical explanation of experimental data

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5 A \_\_\_\_\_ is a systematic approach to problem solving.

scientific methods

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6 Any type of data collected with your senses is considered to be ~~quantitative~~ data.

qualitative

True

False

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7 A hypothesis is a testable statement or prediction.

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8 A control, is the standard of comparison used in an experiment.

True

False

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9 The dependent variable changes in response to change in the independent variable.

True

False

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10 The independent variable is the variable manipulated during a scientific experiment.

True

False

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11 A conclusion is a judgment based on information obtained in an experiment.

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12 A hypothesis can never be proven.

True  
False

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13 A \_\_\_\_\_ is an explanation of a natural phenomenon based on many observations and investigations over time.

A hypothesis

B scientific law

C theory

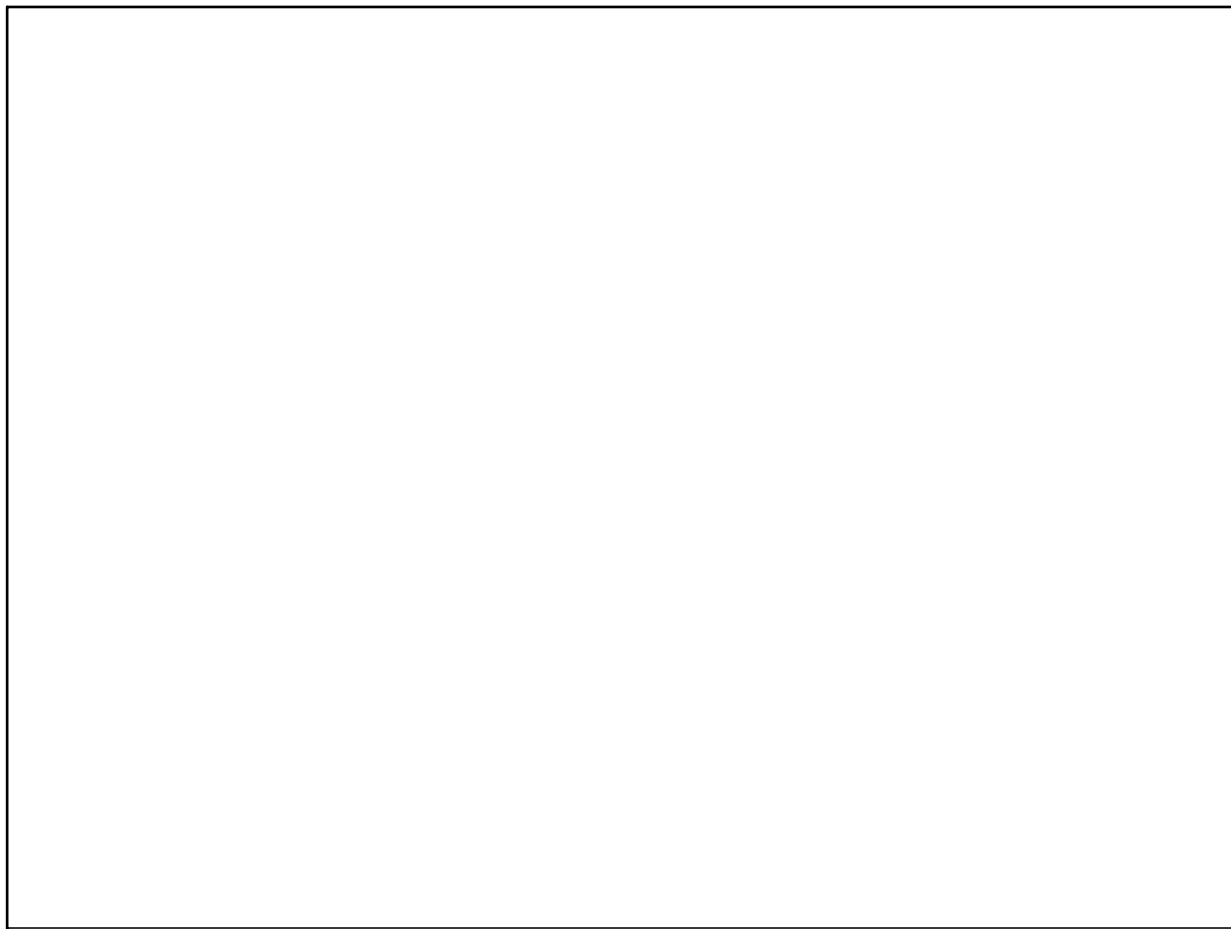
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14 A scientific law is a relationship in nature supported by many experiments to which no exceptions have been found.

True

False

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